DPA Series Amplifiers



Quick Start Guide

EXPLANATION OF TERMS AND SYMBOLS

The term "WARNING!" indicates instructions regarding personal safety. If the instructions are not followed the result may be bodily injury or death.

The term "CAUTION!" indicates instructions regarding possible damage to physical equipment. If these instructions are not followed, damage to the equipment could result that may not be covered under the warranty.

The term "IMPORTANT!" indicates instructions or information that are vital to the successful completion of the procedure.

The term "NOTE" indicates additional useful information.



The lightning flash with arrowhead symbol in a triangle alerts the user to the presence of uninsulated dangerous voltage within the product's enclosure that may constitute a risk of electric shock to humans.

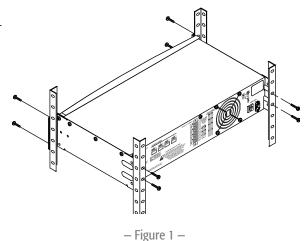
The exclamation point within an equilateral triangle alerts the user to the presence of important safety, and operating and maintenance instructions in this manual.



NOTE: This Quick Start Guide assumes starting with the amplifier's basic factory configuration, with four separate inputs and four separate outputs. For detailed instructions for custom configurations refer to the DPA User Guide (TD-000367).

Rack Mount the Amplifier

1. Secure the amplifier in the rack with eight screws (not supplied)—four in front, four in back.



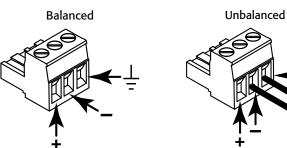
TD-000433-00-B

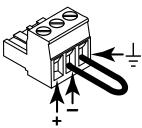


Connections

Inputs

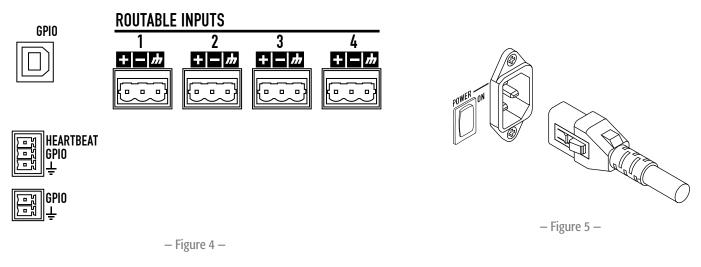
- 1. Wire the line-level audio sources to up to four Euro-style connectors (supplied). You may use either balanced (Figure 2) or unbalanced connections (Figure 3).
- 2. Plug the connectors into the appropriate receptacles (Routable Inputs 1, 2, 3, 4); see Figure 4.
- 3. Connect the IEC power cord to the AC receptacle on the rear of the amplifier (Figure 5).





- Figure 2 -

– Figure 3 –





WARNING!: Do not turn the amplifier on yet.

Outputs

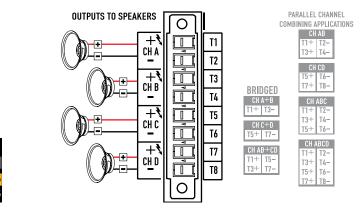
Note that changing the output configuration of the amplifier changes the outputs to the loudspeakers accordingly. Use the diagrams shown in Figure 6 thru Figure 8 as a reference for wiring the loudspeakers. After you connect the outputs to the loudspeakers you may turn the amplifier on.

Separate Channels (A B C D)

Up to four separate loudspeaker loads

Use up to four 2-wire cables; connect to:

- T1+/T2- (Loudspeaker 1)
- T3+/T4- (Loudspeaker 2)
- T5+/T6- (Loudspeaker 3)
- T7+/T8- (Loudspeaker 4)



- Figure 6 -

в С D

8.0 8.0 8.0

625 625 625 625

Δ

80

Bridged (A+B) and Separate (C D) Channels

For A+B (bridged) to one loudspeaker load

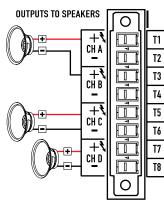
Use one 2-wire cable; connect to:

• T1+/T3-

For C & D (separate) to two loudspeaker loads

- Use two 2-wire cables; connect to:
- T5+/T6- for CH C
- T7+/T8- for CH D





	COMBINING APPLICATION					
	CH AB T1+ T2-					
	T3+ T4-					
BRIDGED	CH CD T5+ T6- T7+ T8-					
CH A+B	CH ABC					
T1+ T3-	T1+ T2-					
CH C+D	T3+ T4- T5+ T6-					
T5+ T7-						
CH AB+CD	CH ABCD					
	T1+ T2-					
T1+ T5-	T3+ T4-					
T3+ T7-	T5+ T6-					
	T7+ T8-					

PARALLEL CHANNEL

– Figure 7 –

Parallel Channels (ABCD)

One loudspeaker load

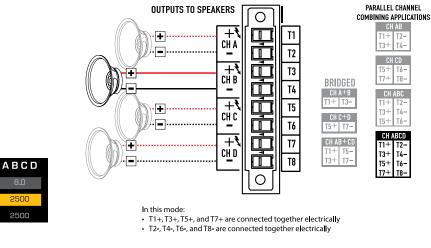
Use one 2-wire cable; connect to:

• T3+/T4- (or T5+/T6-)

Multiple loudspeaker loads

Use up to four 2-wire cables; connect to:

- T3+/T4-
- T5+/T6-
- T1+/T2-
- T7+/T8-



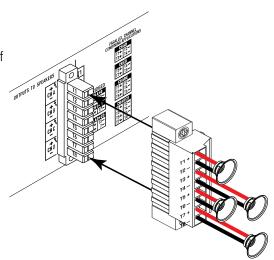


8.0

2500

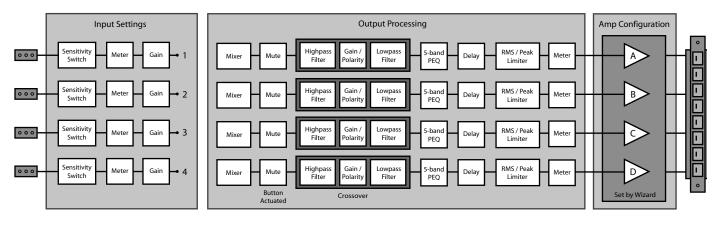
Connect the Loudspeakers

- 1. Connect the loudspeaker wiring to the 8-pin Euro-style connector as needed for your amplifier's configuration.
- 2. Install the female 8-pin Euro-style connector onto the male connector on the rear of the amplifier as shown in Figure 9.
- 3. Use a Phillips screwdriver to secure the connector.



- Figure 9 -

DPA Amplifier Signal Flow



– Figure 10 –



Off Mode



- Rear power switch is off; the amplifier is not operable. The power switch is the AC Mains disconnect.
- The power button is not lit.
- To apply power, turn the power switch on. The amplifier enters the Run Mode; the power button turns blue.

Run Mode

- From Standby or Mute All modes, press and release the power button on the front panel.
- The power button is blue.
- The amplifier is fully operable; audio can pass.

Standby Mode

- From Mute All or Run modes, press and hold the power button on the front panel.
- The power button is solid red.
- The amplifier is not operable; audio will not pass.

Mute All Mode

- From the Run Mode, press and release the power button.
- The power button flashes red.
- The front panel and DSP functionality are fully operable. Any changes you make are saved and take effect in the Run Mode.

Master Control Knob

- Scrolls up/down and right/left to select menu items and parameters
- Adjusts parameters

ENTER Button



- Navigates into the menu structure
- Enters the edit mode for adjusting parameters
- Confirms the changes you make

EXIT Button



- Navigates out of the menu structure and parameter selection.
- In the edit mode, pressing EXIT reverts the value back to its prior state, and exits the edit mode.

HOME Button



- If you are on the Home screen, pressing HOME displays the alternate Home screen. Pressing HOME again returns you to the primary Home screen.
- If you are on a navigation screen, pressing HOME takes you to the Home screen.
- If you are on an edit screen, pressing HOME will confirm any value being edited and take you to the Home screen.

GAIN Button



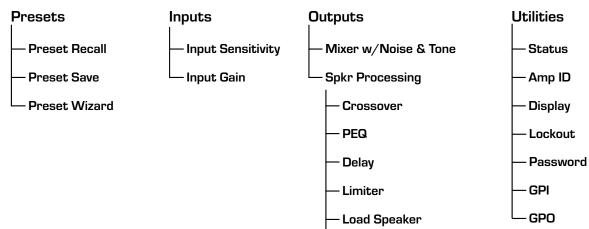
[SEL]

- Pressing the GAIN button from any screen takes you to the output gain screen for the most recently accessed output channel.
- Pressing GAIN again confirms the gain change and returns to the screen you were on when you pressed GAIN.

SEL Buttons

- Use these buttons to navigate between input channels or output channels. For example, if you are adjusting output gain on channel A, pressing the channel B SEL button takes you to the gain adjustment for channel B.
- These buttons change both input and output selection at the same time. For example, if you select Output A then switch to an Input screen, you are on Input 1.
- The SEL buttons are active on the Home page, Main Menu, and any Input or Output screen.
- The SEL buttons illuminate blue for output channels, and amber for input channels.

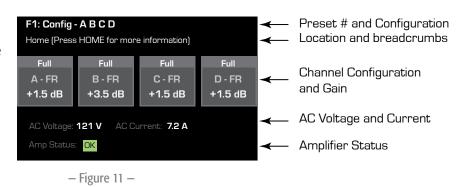
Menu Tree



Screen Types

Informational

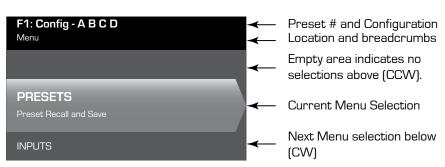
Informational screens, like the HOME screen, provide a good amount of useful information at a glance.



Save Speaker

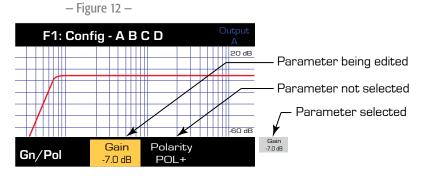
Navigational

Navigational screens are for selecting menu items. Use the Master Control knob and the ENTER and EXIT buttons to navigate and select.



Parameter Editing

Parameter editing screens allow you to select, edit, and confirm changes for various system parameters. Use the ENTER button to edit and confirm changes to parameters. Use the Master Control knob to select a parameter and make adjustments. Use the EXIT button to exit the edit mode without saving changes.



– Figure 13 –

Presets

The DPA amplifiers are preset driven, so to get the most out of the amplifiers an understanding of how presets work is essential. A preset, in the context of the DPA amplifiers, is a combination of amplifier configuration and DSP processing; recalling a preset can change the output routing and wiring and/or any DSP processing.

Preset Creation

A preset can be created in two ways. The first is to modify an existing preset, then save this as a new one; the second is to use the Preset Wizard to create a preset from scratch.

Preset Wizard

The Preset Wizard simplifies the preset creation process, and allows the user to create a preset from the ground up. The Wizard provides a mechanism for the user to select his desired power and load. Based on these selections, the best amplifier configuration is selected and the user is then allowed to select and assign loudspeakers to each output.

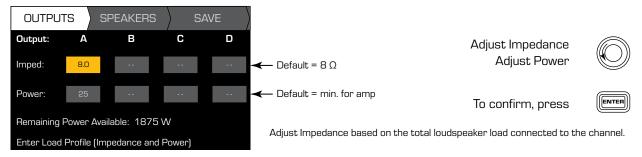
To start the Preset Wizard: **HOME > PRESETS > PRESET WIZARD > ENTER**

STEP 1 — About the Preset Wizard



HOME > PRESETS > PRESET WIZARD > ENTER > ENTER

STEP 2 – Adjust impedance and power



Possible Output Mode Combinations using the Preset Wizard



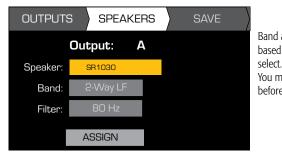
– Figure 14 –

Modes: A B = Separate Channels A+B = Bridge Mode AB = Parallel Mode

STEP 3 – Select output channel for speaker assignment

OUTPUTS		ITS	SPEAKERS		SAVE	
Out	put:	Α	В	C	D	tl e
Imp	ed:	8.0	8.0	8.0	8.0	S
Pow	/er:	625	625	625	625	
Sp	okr:					C le
		Assign	Assign	Assig	n Assig	n

STEP 4 – Select speaker type for channel

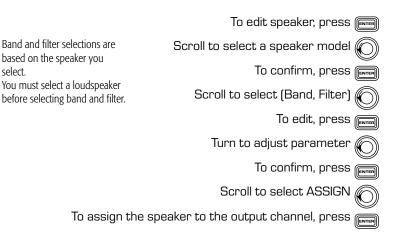


When you are finished setting the Impedance and Power for each output, scroll to the SPEAKERS tab.

Loudspeaker assignment is optional. You can assign a loudspeaker to one or more channels, or none at all. Scroll to select the output channel.

To assign a loudspeaker, press

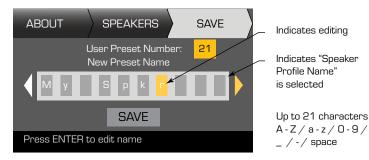
Continue to the next Step.



STEP 5 – Save Wizard Preset



STEP 6 – Name the loudspeaker profile



Scroll to the Save screen



To edit User Preset number, press

To name and save the preset, Complete steps 1 thru 3 under "To Save a New User Preset"

To add Speaker Profile Name, press **Enter**. Scroll to desired letter position; press **Enter**. Turn to select desired character; press **Enter**. When finished, scroll to SAVE; press **Enter**.

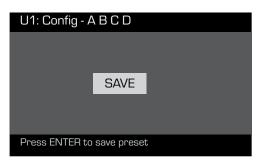
7

Saving Presets

Presets can be modified and saved using the Save Preset menu. You can start with a Factory Preset (F<n>: <name>), make modifications, and then save it as a User Preset (U<n>: <name>). You cannot overwrite Factory Presets. There are two ways to save presets: overwrite an existing User Preset, or save a new User Preset.

To overwrite a User Preset, **HOME > PRESETS > PRESET SAVE > ENTER**

Overwrite Preset



To save, press

To edit User Preset number, press

Scroll to desired number (1 thru 50)

To confirm User Preset number, press

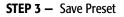
To save a new User Preset, **HOME > PRESETS > PRESET SAVE AS > ENTER**

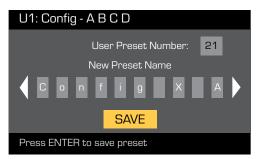
STEP 1 - Select and Edit Preset Number



STEP 2 – Name the Preset







When you are finished naming, press

To confirm Save, press

ENTER

ENTER

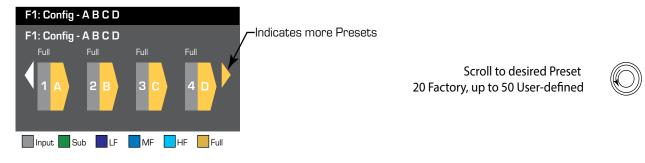
8

Recalling Presets

Recalling a preset changes the configuration of the amplifier. You can recall factory or user-defined presets. To overwrite a User Preset,

HOME > PRESETS > PRESET RECALL > ENTER

STEP 4 – Select Preset



STEP 5 – Confirm Selection



To select the Preset configuration, press



To Confirm the selection, press

ENTER

Bottom message changes to: "Recalling Preset now..." You may hear relays clicking

Utilities

The Utilities section provides the following amplifier information and functionality: Please refer to the DPA User Manual for complete details.

- STATUS
- ID
- Serial Number

- LOCKOUT
- PASSWORD
- GPIO



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Facsimile Numbers: Sales & Marketing FAX: +1 (714) 754-6174 Customer Service FAX: +1 (714) 754-6173

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E-mail: info@qsc.com tech_support@qsc.com

If you would like a full copy of the DPA User manual, visit the QSC website at www.qsc.com, or contact Customer Service +1 714 957-7150 or toll free (USA only) (800) 772-2834 to receive a copy by mail.

Si desea obtener una copia completa del manual del usuario de la DPA, visite el sitio web de QSC en www.qsc.com, o póngase en contacto con el Servicio al Cliente al +1 714 957-7150 o sin costo (sólo en EE.UU.) al (800) 772-2834 para recibir una copia por correo.

Pour obtenir un exemplaire complet du manuel d'utilisation de la DPA, allez sur le site Web QSC à www.qsc.com ou contactez le service clientèle au +1 714 957-7150 ou au (800) 772-2834 (numéro vert - USA seulement) pour recevoir un exemplaire par courrier.

Ein vollständiges Exemplar des Benutzerhandbuchs für die DPA finden Sie auf der QSC Website unter www.qsc.com. Sie können sich unter +1 714 957-7150 oder unter der (nur in den USA) gebührenfreien Nummer +1 (800) 772-2834 auch an den Kundendienst wenden, um sich ein Exemplar zuschicken zu lassen.

如果您需要 DPA 产品用户手册的完整副本,请访问 QSC 网站 www.qsc.com,或致电客户服务部门 +1 714 957-7150,或拨打免费电话(仅限美国)(800)772-2834 通过邮件获取副本。

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